



- Instrumentation cables 250 V
- Overall Screen (OS)
- **Hydrocarbons resistant**

STANDARDS

Test IEC 60332-3-22 Cat.A

APPLICATIONS

These instrumentation and communication cables are used to **transmit analogue or digital signals in measurement and process control**. They are well adapted to **underground use in industrial applications where hydrocarbons may be present and mechanical protection is needed (refinery areas, chemical plant...)**.

Nexans code

- 1st serie = number of pairs, triples or quads: 01 to 27 - 2nd serie = pair (IP), triple (IT), quad (IQ)
- 3rd serie = conductor 05 (1 x 0.8 mm), 09 (7 x 0.4 mm) or 15 (7 x 0.52 mm)
- 4th serie = overall screen (EG), individual screen + overall screen (EI)
- 5th serie = mechanical protection: without metal tape (SF), with steel tape (FA), with lead and steel tape (PF)

Design

Conductor:

- Solid plain copper 0.50 mm² (1 x 0.80 mm) or stranded plain copper cross-section 0.88 mm² (7 x 0.40 mm) or 1.5 mm² (7 x 0.52 mm)

Insulation:

- Polyvinyl chloride (PVC)

Collective screen:

- Polyester tape
- Tinned copper drain wire
- Aluminium/polyester tape

Inner sheath:

- Polyvinyl chloride (PVC)

Armour:

- Double steel tape

Outer sheath:

- Polyvinyl chloride (PVC)
- Colour: light-blue or grey

Core identification

Pair: natural - red
 Triple: natural - red - blue
 Quad: natural - red - blue - yellow
 Natural cores printed with pair/triple number

Marking

NEXANS 279 - Number of pair/triple/quad IP/IT/IQ_05/09/15 EG FA IEC 60332-3-22(A) + metric marking



Fire retardant
EN IEC 60332-3-22 (cat A)



Chemical resistance
Hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in service
70 °C

CONTACT

Market information
industryprojects.business@lynxéo.com
ogroup.com

CHARACTERISTICS

Construction characteristics

Conductor material	Plain copper
Insulation	PVC
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Armour type	Steel tapes
Inner sheath	PVC

Dimensional characteristics

Number of quads	-
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Electrical characteristics

Operating voltage	250 V
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Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Chemical resistance	Hydrocarbons resistant
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	70 °C
Standard	NFM

SECTION 0.5MM

Reference Name	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
03 IP 05 EG FA	8.5	9.6	11.0	12.5	215
07 IP 05 EG FA	11	12.1	13.6	15.6	320
07 IT 05 EG FA	12.6	13.7	15.1	17.3	405
12 IP 05 EG FA	13.9	15.0	16.5	19.0	445
12 IT 05 EG FA	15.9	17.0	18.4	21.1	580
19 IP 05 EG FA	17.4	18.4	19.8	22.7	625
27 IP 05 EG FA	20.2	21.3	22.7	26.1	810



Fire retardant
EN IEC 60332-3-22 (cat A)



Chemical resistance
Hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp.in service
70 °C

SECTION 0.88MM

Reference Name	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
01 IP 09 EG FA	6.6	7.6	9.1	10.3	165
01 IT 09 EG FA	6.9	8.0	9.4	10.6	181
01 IQ 09 EG FA	7.5	8.5	10.0	11.3	199
03 IP 09 EG FA	10.9	12.0	13.3	15.3	305
07 IP 09 EG FA	14.4	15.4	16.9	19.4	480
07 IT 09 EG FA	16.8	17.8	19.2	22.0	625
12 IP 09 EG FA	18.9	19.9	21.4	24.5	730
12 IT 09 EG FA	21.3	22.3	23.7	27.1	955
19 IP 09 EG FA	23.2	24.2	25.5	29.2	1010
27 IP 09 EG FA	27.4	28.4	29.6	34.0	1310

SECTION 1.5MM

Reference Name	Diam. over inner sheath [mm]	Diam. over armour [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
01 IP 15 EG FA	7.3	8.3	9.8	11.0	190



Fire retardant
EN IEC 60332-3-22 (cat A)



Chemical resistance
Hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C

ELECTRICAL DATA NF M 87202

Electrical data

Section	Maximum Voltage (V)	Voltage Test (V)	DC Lineic resistance at 20°C (Ω/km)	Self Inductance mH/km		Capacitance between cond. (nF/km)
				Non Armoured	Armoured	
05	250	2 000	37.5	0.33	0.38	≤145
09	250	2 000	21.4	0.31	0.36	≤160
15	250	2 000	12.1	0.31	0.36	≤180

SELLING AND DELIVERY INFORMATION

Minimum bending radius:

- 10 x outer diameter
- To be doubled during laying operations



Fire retardant
EN IEC 60332-3-22 (cat A)



Chemical resistance
Hydrocarbons resistant



Electro magnetic interference resistance
Yes



Operating temp.
-20 ... 60 °C



Max. conductor temp. in service
70 °C